

KSIEŻYC

d	Wsch.	Kulm.	Zach.	A _w	A _z	α	δ	D	F
	λ=0°		φ=50°			0 ^h UT			
LIPIEC 2018									
	h m	h m	h m	-°	+°	h m s	° ' "	' "	
1	22 14	2 17	6 56	65	62	20 48 12	-18 10.8	29.4	-0.93
2	22 41	3 02	7 57	70	67	21 36 43	-15 42.5	29.5	-0.88
3	23 06	3 47	9 01	76	72	22 24 11	-12 34.1	29.7	-0.81
4	23 29	4 31	10 06	82	79	23 10 55	- 8 52.9	29.9	-0.73
5	23 51	5 15	11 12	89	86	23 57 25	- 4 46.4	30.2	-0.63
6	—	6 00	12 20	—	93	0 44 20	- 0 22.8	30.6	-0.53
7	0 14	6 46	13 30	96	100	1 32 28	4 08.9	31.0	-0.43
8	0 39	7 34	14 43	104	107	2 22 41	8 37.3	31.5	-0.33
9	1 08	8 26	15 58	110	114	3 15 49	12 48.6	32.0	-0.23
10	1 42	9 23	17 14	116	119	4 12 28	16 25.1	32.5	-0.14
11	2 25	10 23	18 27	121	123	5 12 47	19 06.8	33.0	-0.07
12	3 19	11 26	19 32	123	123	6 16 06	20 34.3	33.3	-0.02
13	4 25	12 29	20 28	123	121	7 21 00	20 34.3	33.4	-0.00
14	5 39	13 31	21 13	119	116	8 25 31	19 04.1	33.4	0.01
15	6 58	14 31	21 49	114	110	9 27 54	16 13.9	33.2	0.05
16	8 18	15 26	22 19	107	103	10 27 10	12 22.4	32.8	0.12
17	9 36	16 18	22 46	99	95	11 23 06	7 52.1	32.4	0.21
18	10 51	17 07	23 10	91	87	12 16 08	3 04.0	31.9	0.31
19	12 03	17 54	23 34	84	80	13 07 02	- 1 44.3	31.4	0.41
20	13 13	18 41	23 59	76	73	13 56 35	- 6 18.9	31.0	0.52
21	14 21	19 27	—	70	—	14 45 34	-10 28.9	30.5	0.62
22	15 26	20 14	0 26	64	67	15 34 34	-14 05.2	30.2	0.72
23	16 28	21 02	0 56	60	63	16 24 00	-17 00.6	29.9	0.80
24	17 26	21 50	1 31	57	59	17 14 03	-19 08.5	29.7	0.87
25	18 18	22 38	2 12	56	57	18 04 37	-20 24.2	29.5	0.93
26	19 04	23 26	2 59	57	56	18 55 24	-20 44.7	29.5	0.97
27	19 43	—	3 51	59	58	19 45 56	-20 09.8	29.4	0.99
28	20 17	0 14	4 49	63	61	20 35 48	-18 41.5	29.4	-1.00
29	20 46	1 00	5 50	68	65	21 24 42	-16 24.6	29.5	-0.99
30	21 11	1 45	6 53	74	70	22 12 33	-13 25.5	29.6	-0.96
31	21 34	2 30	7 57	80	76	22 59 28	- 9 51.9	29.8	-0.91

ostatnia kwadra:	6 VII	7 ^h 51 ^m		1 VII	1.9 ^h	Mars	5°S
nów:	13 VII	2 ^h 48 ^m		4 VII	0.4 ^h	Neptun	3°N
pierwsza kwadra:	19 VII	19 ^h 52 ^m		7 VII	13.7 ^h	Uran	5°N
pełnia:	27 VII	20 ^h 20 ^m		14 VII	22.1 ^h	Merkury	4°N
				16 VII	3.6 ^h	Wenus	2°S
				21 VII	0.0 ^h	Jowisz	4°S
perygeum:	13 VII	8 ^h 26 ^m		25 VII	5.9 ^h	Saturn	2°S
apogeum:	27 VII	5 ^h 42 ^m		27 VII	20.0 ^h	Mars	7°S
				31 VII	7.2 ^h	Neptun	2°N